

# Gabriel A. Rodríguez Linera

Arvenweg 3, 8048 Zürich, Switzerland

Visa: Permit B with work authorization

[gabyrod7@gmail.com](mailto:gabyrod7@gmail.com) · +41 76 274 85 02

[LinkedIn](#) · [ORCID](#) · [GitHub](#)



## Professional Experience

---

- Data Scientist — Experimental Physicist
  - Led five data analysis projects processing TB-sized datasets, developing data analysis methodologies, and performing detailed measurements of physical reactions. This work was presented at three conferences and led to a peer-reviewed paper and a working paper.
  - Worked closely with a team of over 10 scientists to study a misalignment in our experimental detector. I carried out analyses and consulted the team on my area of expertise. Working for over a year and using various reactions and techniques, we identified and fixed this misalignment.
  - Proficient with Python libraries such as matplotlib, pandas, and scikit-learn for data processing, visualization, and machine learning tasks. Designed and implemented a multithreaded command-line Python tool to automate complex workflows and improve resource efficiency.

## Skills

---

- Programming and Scripting
  - Python, C++, and Bash (7 years experience)
- Software, Libraries, and Frameworks
  - [Apptainer](#): a container platform designed to create and run containers optimized for HPC.
  - [Git/Github](#): used for version control, and collaborative development.
  - [Scikit-learn](#): used during an online course and in several data science competitions.
  - [HTCondor](#): distributed computing framework for managing large-scale computational workloads.
  - [L<sup>A</sup>T<sub>E</sub>X](#): preparation of technical documents (i.e., papers, dissertations, and presentations).
- Soft skills
  - Team player: collaborated with over 30 scientists from multiple countries across 5 projects.
  - Communicator: presented research at seminars and conferences; explained physics concepts to the public using toy experiments at university Open House events.
  - Writing: In addition to my Master's thesis and Ph.D. dissertation, I have authored a peer-reviewed paper, a working paper, and three reports detailing projects I led.
- Languages
  - Spanish (native), English (bilingual proficiency), and German (B1)

## Education

---

- Applied Machine Learning in Python (Coursera [certificate](#)) (2025)
- SQL for Data Science (Coursera [certificate](#)) (2025)
- Doctor of Philosophy in Physics (Florida State University, USA) (2020-2024)
- Master of Science in Physics (Florida State University, USA) (2017-2020)
- Bachelor of Science in Physics (Universidad de Puerto Rico, PR) (2010-2017)